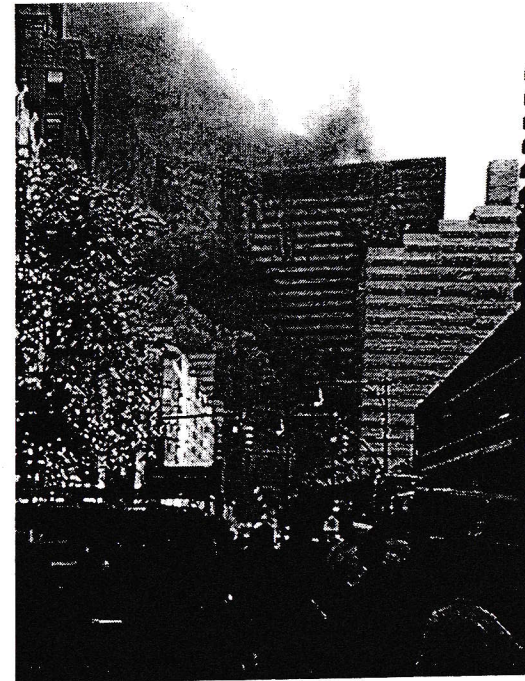
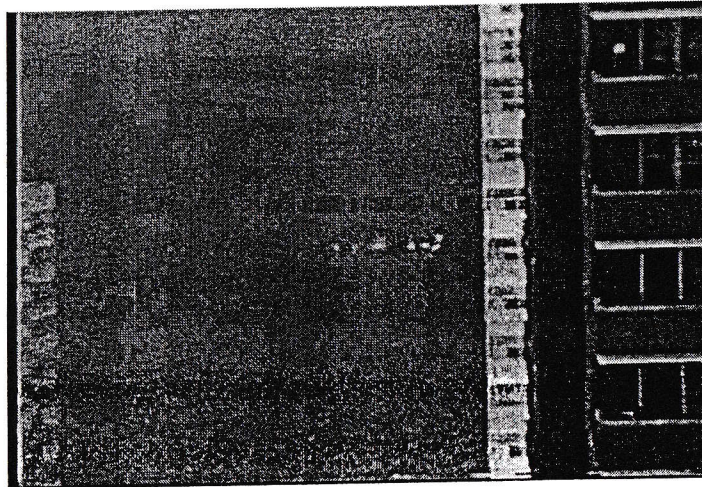
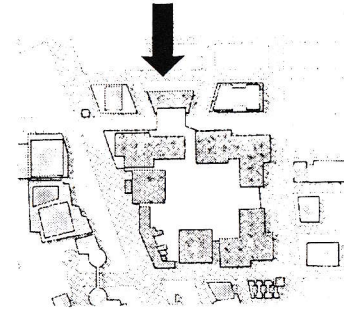
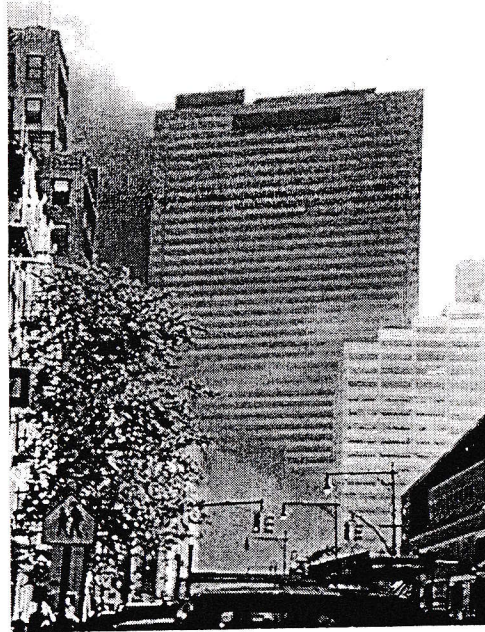


WTC-7

Fire on Southeast corner



All images provided by Corbis

Primary focus of WTC BPAT Study	Building	WTC Investigation									
		A. Aircraft Impact Damage	B. Forensic Analysis of Steel	C. Analysis of Built-In Fire Protection Systems	D. Prediction of Thermal Environment	E. Structural Fire Response & Vulnerability	F. Structural Collapse Vulnerability & Mechanisms	G. Occupant Behavior & Egress	H. Fire Service Technologies & Guidelines	I. Fire Codes & Standards	J. Analysis of Building Codes & Practices
Secondary focus of WTC BPAT Study											
Primary NIST projects for implementing BPAT recommendation											
Supporting projects for implementing BPAT recommendation											
RDD&D											
8.2.1 Detailed modeling of aircraft impacts	WTC 1&2	•	X								X
8.2.2 Detailed modeling of fires coupled with structural modeling		X	•		X						
8.2.3 Detailed modeling of floor systems and connections			X								
8.2.4 Study of performance of sprayed on fire protection on floor trusses				X	•						X
8.2.5 Study of performance of fire proofing of beam, columns, and diaphragms		X		X	•						X
8.2.6 Testing of resistance of sprayed-on fireproofing to mechanical damage				X							X
8.2.7 Study to determine feasible designs to arrest collapse							X				
8.3.1 Study WTC 3 to determine design features that resisted collapse	WTC 3										
8.4.1 Relate fire ratings (e.g., ASTM E119) to real fire performance of connections (WTC 4, 5, 6)	WTC 4,5,6									X	X
8.5.1 Collect data on initial damage to WTC 7 from collapse of WTC 1	WTC 7			X	•	X					
8.5.2 Determine fuel loads, location of emergency power systems, and controls for WTC 7					•	X					
8.5.3 Detailed modeling of fire coupled to behavior of load transfer system in WTC 7					•						
8.5.4 Review seat connections to verify capacity of 11th floor to transfer load											
8.5.5 Confirm suggested mechanism for progressive collapse of WTC 7											
8.5.6 Study adequacy of current fire resistance design provisions for pivotal structural members				X		X				X	X
8.5.7 Fire resistance of members and connections					X	X	X				
8.6 Bankers trust building – how collapse was halted	other										
8.7 Peripheral buildings – relevance to future events											
8.8 Metallurgical analysis of steel samples	N/A	X	•			X	X				
8.9 Study process – resources and data access											
8.10 Interaction of structural elements and fire											
8.11 Fire protection engineering discipline					X						
8.12 Building evacuation								•			
8.13 Interaction of structural and fire professions											
8.14 Emergency personnel									•		
8.15 Education of stakeholders ²											
8.16 National response											
8.17 Archival information ²					•			•			

[illegible]